UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,129	01/05/2007	Hironori Mizuta	062398	8186
	7590 04/12/201 , HATTORI, DANIEL		EXAMINER	
1250 CONNECTICUT AVENUE, NW			DELCOTTO, GREGORY R	
SUITE 700 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1796	
			NOTIFICATION DATE	DELIVERY MODE
			04/12/2010	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentmail@whda.com

	T			
	Application No.	Applicant(s)		
	10/577,129	MIZUTA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Gregory R. Del Cotto	1796		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>24 M</u> This action is <b>FINAL</b> . 2b) ☐ This     Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
<ul> <li>4)  Claim(s) 1-28 is/are pending in the application 4a) Of the above claim(s) 21-28 is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-20 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Edirawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ■ All b) ■ Some * c) ■ None of:  1. ■ Certified copies of the priority documents have been received.  2. ■ Certified copies of the priority documents have been received in Application No  3. ■ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te		

Application/Control Number: 10/577,129 Page 2

Art Unit: 1796

#### **DETAILED ACTION**

1. Claims 1-28 are pending. Applicant's response filed 3/24/10 has been entered.

Applicant's election without traverse of Group I, claims 1-20, in the reply filed on 3/24/10 is acknowledged.

Claims 21-28 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 3/24/10.

## **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Claim Objections

Claim 2 is objected to because of the following informalities:

With respect to instant claim 2, line 1, it is suggested that Applicant change "learning" to "cleaning".

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/577,129 Page 3

Art Unit: 1796

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Kanno et al (US 2004/0106531).

Kanno et al teach a cleaning composition for removing resists containing a water-soluble organic solvent, phosphonic acid, water, a copper corrosion inhibitor, etc., such that the composition has a pH from 2 to 8. Suitable corrosion inhibitors include citric acid, etc. See paras. 71-75. Suitable solvents include diethylene glycol monomethyl ether, etc. See paras. 42-43. Suitable phosphonic acids include diethylenetriaminepenta(methylene phosphonic acid), 1-hydroxyl ethylidene-1,1-diphosphonic acid, etc. The phosphonic acid is present in amounts from 0.5% to 15% by weight. See paras. 62-63. Kanno et al disclose the claimed invention with sufficient specificity to constitute anticipation.

Accordingly, the teachings of Kanno et al anticipate the material limitations of the instant claims.

Art Unit: 1796

Claims 1-15 and 17-20 rejected under 35 U.S.C. 102(b) as being anticipated by Ikemoto et al (US 2003/0181344).

Ikemoto et al teach a photoresist stripping composition containing at least one oxymethylamine compound. See Abstract. The cleaning composition may contain an alkaline compound, an organic solvent, an anti-corrosion agent, and a surfactant, either alone or in combination. See para. 34. Suitable solvents include ethylene glycol, ethylene glycol monomethyl ether, ethanol, etc. See para. 37. The anti-corrosion agent may include aromatic hydroxyl compounds, sugar alcohols, triazole compounds, and chelating compounds. Suitable chelating compounds include 1,2-propane diaminetetramethylene phosphonic acid, citric acid, etc. These compounds may be used alone or in combination of two or more. See paras. 39-43. Further, the anticorrosion agent is generally present in amounts of 30% by weight or more. See para. 47. Specifically, Ikemoto et al teach compositions containing 65% 1-amino-2-propanol, 1% butoxymethyldiethylamine, 14% diethylene glycol monomethyl ether, 18% water, and 2% 4-tert butylcatechol. Additionally, Ikemoto et al teach compositions containing 30% ethanolamine, 2% aminoethoxyethanol, 40% dipropylene glycol methyl ether, 26% water, and 2% citric acid. See paras. 63-67. Ikemoto et al disclose the claimed invention with sufficient specificity to constitute anticipation.

Accordingly, the teachings of Ikemoto et al anticipate the material limitations of the instant claims.

Claim 16 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ikemoto et al (US 2003/0181344).

Ikemoto et al are relied upon as set forth above. Note that, the Examiner asserts that the compositions as specifically disclosed by Ikemoto et al would inherently have the same pH as recited by the instant claims because the compositions contain the same components in the same amounts as recited by the instant claims. Ikemoto et al discloses the claimed invention with sufficient specificity to constitute anticipation.

Accordingly, the teachings of Ikemoto et al anticipate the material limitations of the instant claims.

Alternatively, even if the broad teachings of Ikemoto et al are not sufficient to anticipate the material limitations of the instant claims, it would have been nonetheless obvious to one of ordinary skill in the art to arrive at the claimed pH of the composition in order to provide the optimum cleaning properties to the composition because Ikemoto et al teach that the amounts and types of required components added to the composition may be varied.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Remaining references cited but not relied upon are considered to be cumulative to or less pertinent than those relied upon or discussed above.

Applicant is reminded that any evidence to be presented in accordance with 37 CFR 1.131 or 1.132 should be submitted before final rejection in order to be considered timely.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory R. Del Cotto whose telephone number is (571)

Application/Control Number: 10/577,129 Page 7

Art Unit: 1796

272-1312. The examiner can normally be reached on Mon. thru Fri. from 8:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gregory R. Del Cotto/ Primary Examiner, Art Unit 1796

/G. R. D./ April 6, 2010